CONSUMPTIVE USE RATES FOR ALFALFA RATON FIELD OFFICE

		CU - IN./[DAY		CIR - IN/	DAY	ACIR - IN/DAY		
MONTH	PEAK	MEAN	LOW	PEAK	MEAN	LOW	PEAK	MEAN	LOW
APRIL	_	. ——		-					
MAY	.17	-14	.06	.10	.08	.03	./3	. / /	.04
JUNE	-24	.20	.08	<u>.</u> /8	.15	.06	.22	. 18	.07
JULY	.29	.24	.10	.16	./3	.05	.23	. 19	.08
AUG.	.24	.20	.08	.10	.08	.03	.17	.14	.06
SEPT.	.16	.13	.05	.10	.08	.03	./3	. //	.04
ост.			-						

Consumptive use studies conducted on alfalfa at Fort Sumner, Portales, and Lovington by the SCS have given us a refined data base on which to make consumptive use computations.

Alfalfa, cut for hay once a month during the growing season, has a variable daily consumptive use rate which reaches a peak value just prior to cutting and a low value which occurs immediately after cutting.

To obtain a consumptive use value for planning or sizing a system, the mean value shown in the table should be used.

For irrigation depth and frequency determinations, the peak daily value is approximately 1.2 times the mean value, while the low value of daily consumptive use is approximately .4 times the mean daily value.

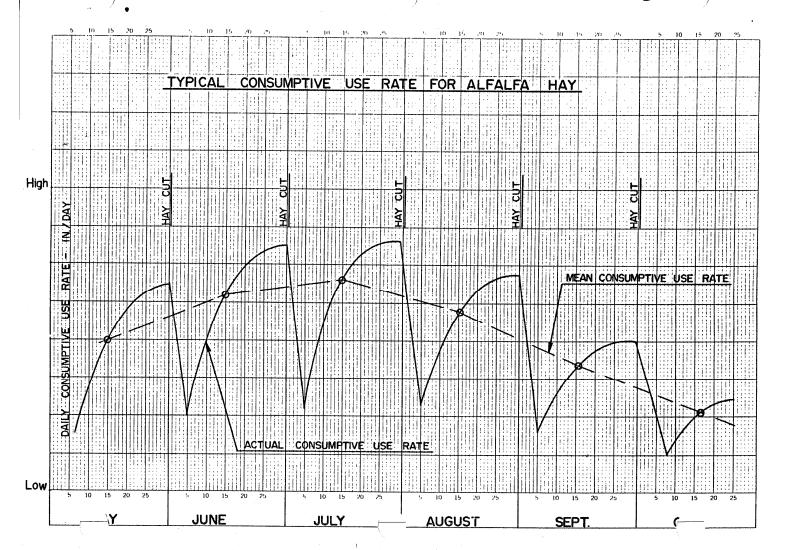
Alfalfa grown for seed production will have a consumptive use value equal to the peak value during full cover until the middle of full bloom.

As irrigation pumping costs have increased, and many water supplies have dwindled, many alfalfa hay growers are aiming not at maximum hay production per acre, but rather at a maximum hay production per acre-inch of water applied. In areas where this is the grower's objective, a planning or sizing value of .85 to .9 times the mean is applicable to a system devoted to alfalfa hay.

The yearly volumes shown for CU, CIR, and ACIR are calculated using the mean value.

(Over)

YEARLY VOLUME AT 100% EFFICIENCY						
cu	ACIR					
25.4	15.1"	20.2"				



U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

Tabular Computations

CONSUMPTIVE USE REQUIREMENTS

CC-TRZ1-4/8/

FOR

RATON

FIELD OFFICE

						Ä		
CROP	MONTH	CU "/DAY	CIR "/DAY	ACIR "/DAY		TOTAL CU "/YEAR	TOTAL CIR "/YEAR	TOTAL ACIR "/YEAR
Cool								
Season					7			
Irrigate	d April	-07	.03	.05		26.9	/3.Z	20.1
Pasture	May	.12	.06	.09				
	June	.17	.12	.15				
	July	. 19	.10	.15				
	Aug.	-17	.05	.//				
, i	Sept.	012	.07	./0				
	Oct.	.06	.0/	.04				
	000.	• 0 6	• 0 /	.07				
Warm	· · · · · · · · · · · · · · · · · · ·			. : .				
Season								
Irrigate	d April							
Pasture	May							
, as care	June							<u> </u>
	July							
J -	Aug.			-				
	Sept.							
	Oct.							
	000.					-		
						\$2.0 (82)	<u> </u>	
The core	umnt dans	oo of in-		atura fa	llous +k-		1 61	4 ,,, , , , , , , , , , , ,
during t	he growin	se of irr g season	iyated pi as those	shown fo	r alfalfa	same ger	that the	changes
are due	to not on	ly cuttin	g for ha	/, but al	so grazin	g. Since	the gra	ing
intensit	y can var	y greatly s. There	from far	rm to far	m, no att	empt has	been made	to plot
yearly v	alues for	the cons	umptive	ise of in	rigated p	asture.	ean month	
		, ·	,		-			

SCS-MGT-6

Rev. 1-71

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

	CONSUMPTIVE USE REQUIREMENTS	CC-TRZ1- 4/81
· · · · · · · · · · · · · · · · · · ·	for	
	RATON	Field Office

CROP	MONTH	CL "/DAY	CIR "/DAY	ACIR "/DAY		TOTAL CU "/YR	TOTAL CIR "/YR	TOTAL ACIR "/YR
CORN	MAY	.07	.01	.04		23.6	13.4	18.0
	JUNE	. 14	.09	.12				
	202Y	.24	./3	.19				
	AUG.	.2/	.09	.15				
	SEPT.	./3	.08	•11				
GRAIN SORGHUM	MAY	.05		.02		21.0	10-1	15.6
	ZONE	- 11	.06	.08			·	
	ZULY	.23	./4	.19				
	AUG.	.20	.08	.14				
	SEPT.	011	.06	.09	,			
	OCT.	.05		.02				
						·	·	
STRING SMALL	APRIL	.05/5	.01	.03		12.5	6.5	9.5
GRAINS	. '	. 175.1		.14				
	ZUNE	.1967		.17				
	JULY	.02.6		_				
WINTER	AUG.	.09		.03		21.4	10.8	16.1
	SEPT.	.10	.05	.08				
	OCT.	. 10	.05	.08				
	APRIL	•11	.07	.09				
	MAY	. 18	./2	.15				
	JUNE		.12	.15				
	2027	.02	-يىنى			<u> </u>		
•	4	<u> </u>	· · · · · · · · · · · · · · · · · · ·				•	

 CONSUMPTIVE USE REQUIREMENTS	CC-TRZI-5/8/
for	
RATON	Field Office

							*	· ·
CROP	MONTH	cu "/DAY	CIR "/JAY	ACIR "/DAY		TOTAL CU "/YR	TOTAL CIR "/YR	TOTAL ACIR "/YR
ORCHARD W/O COVER	MAY	.12	.06	-15		22.8	11.6	17.2
,	JUNE	.18	. 13	.16				
·	2017	-21	.12	.17				1
	AUG.	-17	.05	.11				
	SEPT.	-08	.03	.06				
	-							
OREHARD W/COVER	MAY	. 15	.09	./2		29.0	17.8	23.4
	JUNE	. 22	-17	.20				
	JULY	.25	.16	.21				1.
	AUG.	.2/	.09	.15				
	SEPT.	. / 4	.09	.12	**		in the second of	e de la composition della comp
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MATUR	=							
WINGE	LEAKS							
	MAY	.03			·	2/.4	10.2	15.8
	JUNE	.09	.04	.06		ļ		ļ
· · ·	JULY	./8	.09	014		<u> </u>		
	AUG	.22	.10	016		 	<u> </u>	
	SEPT.	./9	.14	.17				
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